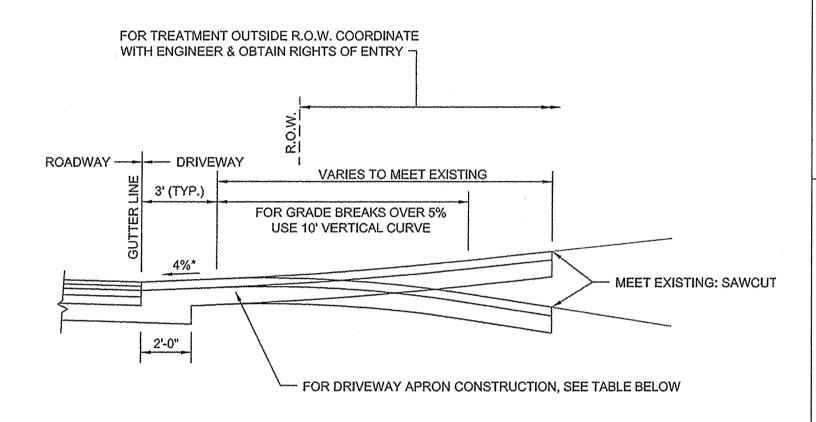


DETAIL NO. TYPICAL CURB CUT PLAN -FEB. 2010 TOWN OF FRAMINGHAM RESIDENTIAL DRIVEWAYS R-5.4.0 DEPARTMENT OF PUBLIC WORKS REV: NO SIDEWALK



## NOTE: FOR PLAN, SEE DRAWING RS.09

	DRIVEWAY APRON CONSTRUCTION	
	CEMENT CONCRETE CONSTRUCTION	HOT MIX ASPHALT
SURFACE:	6" CEMENT CONCRETE, 4,000 PSI, FIBER MESH PER CONSTRUCTION STANDARDS SECTION 5.2.10	4" HOT MIX ASPHALT (2" TOP COURSE MATERIAL OVER 2" BINDER COURSE MATERIAL)
SUBBASE:	8" GRAVEL BORROW (TYPE "B")	8" GRAVEL BORROW (TYPE "B")

## R.O.W. = RIGHT OF WAY

\* - DRIVEWAY APRON SLOPE TOWARDS ROADWAY MAY VARY TO MEET FIELD CONDITIONS; 1" LIP FOR CEMENT CONCRETE DRIVEWAYS

DRIVEWAY APRONS SHALL BE CONSTRUCTED OF HOT MIX ASPHALT OR CEMENT CONCRETE, UNLESS

**FULL DEPTH DRIVEWAY** 

APRON - SECTION

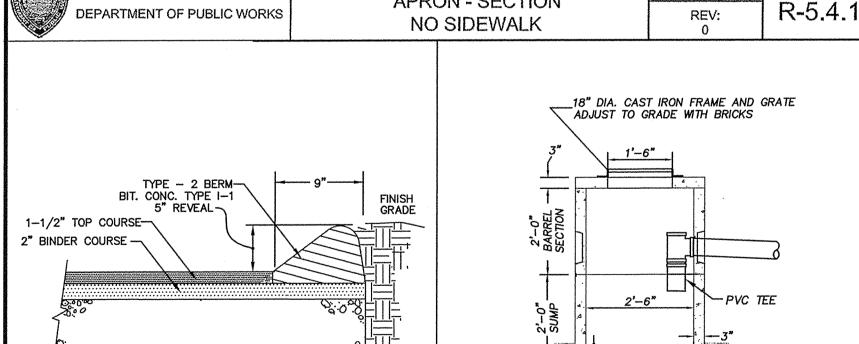
PRIOR WRITTEN APPROVAL IS GRANTED BY DPW.

MODIFIED CAPE COD BERM

& TYPICAL PAVEMENT SECTION

NOT TO SCALE

TOWN OF FRAMINGHAM

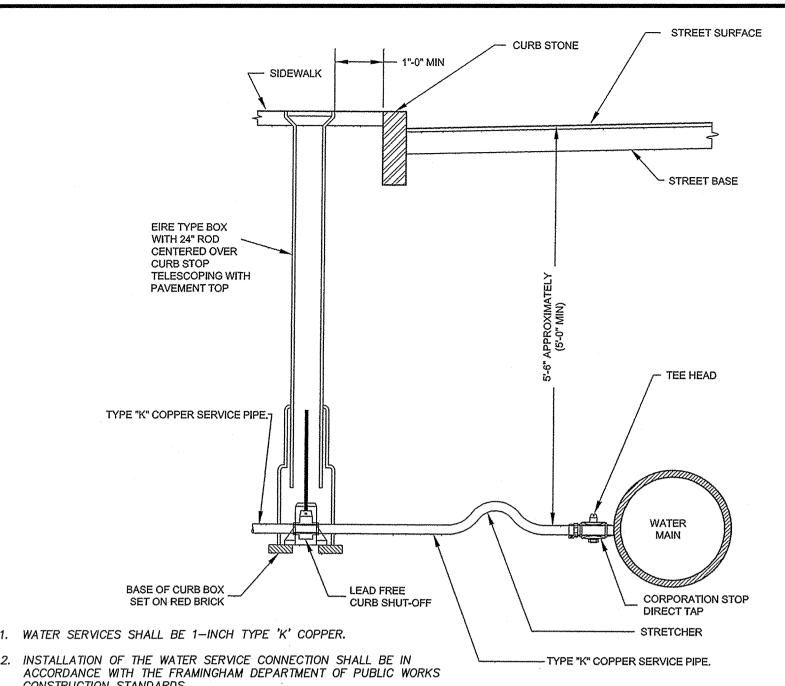


COMPACTED BASE -COMPACTED SUBGRADE . AREA DRAINS MANUFACTURED BY EF SHEA, OR EQUAL. PROCESSED GRAVEL BASE 2. PROVIDE MINIMUM 2 FOOT SUMP. 3. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.

> AREA DRAIN DETAIL NOT TO SCALE

DETAIL NO.

FEB, 2010



3. THE CONTRACTOR SHALL KEEP ACCURATE RECORDS OF ALL CONCEALED AND UNDERGROUND WORK WITH AT LEAST THREE TIES TO EACH VALVE COVER, CURB STOP, BEND OR UNANTICIPATED FIELD CHANGE FROM FIXED PERMANENT OBJECT. THE OWNER SHALL SUBMIT A COPY OF AS-BUILT

DRAWINGS TO THE DPW UPON COMPLETION AND ACCEPTANCE OF THE

SECTION

WORK. PLANS SHALL BE STAMPED BY A MASSACHUSETTS P.L.S. OR P.E. TOWN OF FRAMINGHAM DEPARTMENT OF PUBLIC WORKS

TYPICAL WATER CONNECTION FOR 1" SERVICE

ROUND OPENING

CWEEPHOLE (OPENING TO BE PRECAST

IN RISER SECTION)

TO EXTEND 12" BELOW INVERT

NOTE: NO BELL ENDS IN CATCH BASIN. CONNECTIONS TO

BE TIGHTLY SEALED WITH MORTAR.

48"± 1" DIAMETER

PRECAST CONCRETE DEEP SUMP DRAIN MANHOLE DETAIL

NOT TO SCALE

LA-244 OR EQUAL.

-BUTYL RUBBER

JOINT (TYP.)

OUTSIDE OF PIPE

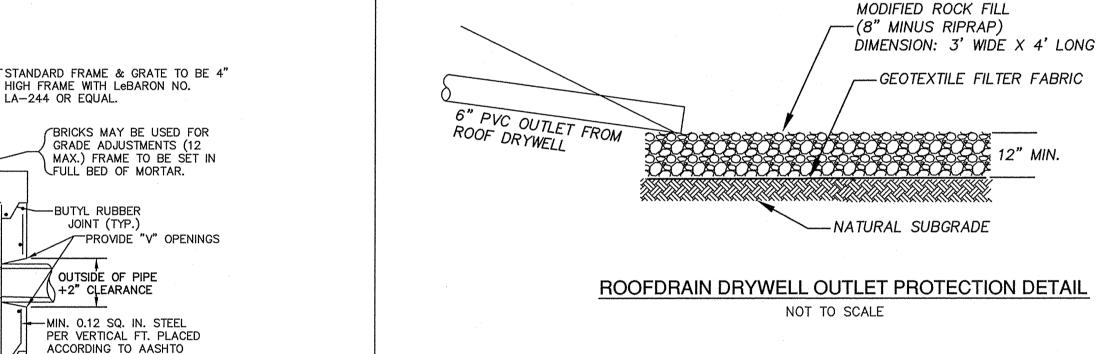
DESIGNATION M199

---- 6" OF 1/2"-3/4"

CRUSHED STONE

+2" CLEARANCE

DETAIL NO. **MARCH 2010** W-2.1.0 REV:



PAVEMENT SLOPE 2%

PAVE 2:1 EDGE-EXTEND BELOW

PEASTONE LAYER

DOUBLE WASHED

2" PEASTONE LAYER-

3/4" CRUSHED STONE

PVC CLEANOUT W/--

THREADED CAP &

6" MIN.

6" MIN.

CULTEC No. 410™ FILTER FABRIC

ELEV.=317.7

TOP (MANDATORY)

HAND HOLE

-18' WIDE X 18' LONG-

ROOFDRAIN DRYWELL DETAIL

NOT TO SCALE

2'-0"

DRIVEWAY INFILTRATION SWALE

NOT TO SCALE

FINISH GRADE=322.5

0.000.000.000.000.000.000

PVC DRAIN (PERF. UP)

W/ CLEANOUT TO GRADE AT UPSTREAM END

- 18'(L)x18'(W)x3.5'(H)

3/4" CRUSHED STONE SURROUND

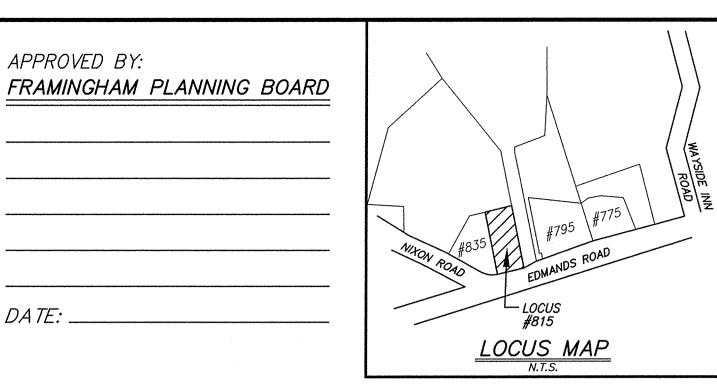
---- CULTEC MODEL 330XL

'C' LAYER. ANY FILL REQUIRED BELOW THE

OFFLINE UNTIL ALL

FULLY STABILIZED,

SIEVE).



SOIL TESTING 11/10/2015 DEEP OBSERVATION HOLE LOG 0-6" 10YR3/2 DTH-A SANDY LOAM 11/10/2015 6-20" SANDY LOAM 10YR6/8 Bw ALL STONE SHALL BE DOUBLE WASHED FINE SAND SOME SIL 10YR6/4 NONE 3 UNITS WIDE X 3 UNITS LONG PARENT GLACIAL TILL DEPTH TO REFUSAL: 66" STANDING WATER: — WEEPING FROM PIT FACE: — ESHWT: <321.5 0-16" SANDY LOAM 10YR3/2 REMOVE TOP/SUBSOIL BELOW 16-32" Bw SANDY LOAM 10YR6/8 DRYWELL, AND EXCAVATE AT 32-64" 10YR5/3 NONE EL.290 SANDY LOAM LEAST 6 INCHES INTO THE BOTTOM OF STONE SHALL BE FREE-DRAINING GRANULAR PARENT GLACIAL TILL DEPTH TO REFUSAL: 64" STANDING WATER: — WEEPING FROM PIT FACE: — ESHWT: <284.7 FILL (<5% PASSING #200 DTH-C 0-6" 10YR3/2 SANDY LOAM 11/10/2015 10YR6/8 6-24" Bw SANDY LOAM DRYWELLS SHALL REMAIN EL.322 24-76" 10YR5/3 NONE SANDY LOAM UPGRADIENT AREAS ARE

PARENT GLACIAL TILL DEPTH TO REFUSAL: 76" STANDING WATER: — WEEPING FROM PIT FACE: — ESHWT: <315.7 DATE: 11-10-2015 TESTS CONDUCTED BY: VITO COLONNA SE#2811

SOIL TESTING 3/29/2012

• PERCOLATION TESTS DEPTH SATURATION 12"-9" DROP 9"-6" DROP PERC. RATE
(In.) (Min.) (Min.) (Min.) (Min./In.) HOLE NO. TOP & DATE ELEVATION PT--"C" 3-29-12 314.0 66" 8 MIN 9 MIN 3 MIN/IN 15 MIN PT-"D" 3-29-12 315.0 58**"** 31 MIN 17 MIN/IN 15 MIN 49 MIN DEEP OBSERVATION HOLE LOG IO., DATE DEPTH SOIL COLOR MOTTLING HORIZON (USDA) (MUNSELL) OTHER DTH-5 10YR3/2 SANDY LOAM 3-29-12 6-29" 10YR6/8 LOAMY SAND 313.0 C1 FINE SAND W/SILT 10YR5/4 NONE 29-96" PARENT GLACIAL TILL DEPTH TO BEDROCK: 96" STANDING WATER: — WEEPING FROM PIT FACE: — ESHWT: 305.0 3-29-12 6--25**"** 10YR6/8 314.0 25-45**"** C1 10YR6/4 NONE SANDY LOAM C2 SANDY LOAM 10YR5/4 10YR3/2 3-29-12 7--30**"** 316.0 30-84" C1 SANDY LOAM 10YR5/4 NONE PARENT GLACIAL TILL DEPTH TO BEDROCK: 84" STANDING WATER: - WEEPING FROM PIT FACE: - ESHWT: 309.0 0-6" 10YR3/2 3-29-12 6-25" LOAMY SAND 25-84" C1 10YR6/4 NONE FINE SAND SOME SILT PARENT GLACIAL TILL DEPTH TO BEDROCK: 84" STANDING WATER: — WEEPING FROM PIT FACE: — ESHWT: 309.0

TESTS CONDUCTED BY: MICHAEL SULLIVAN DATE: 3-29-12 TESTS OBSERVED BY: KELLY PAWLUCZONEK APPLICANT

FRANCA ENTERPRISE SERVICES INC. 449 BOSTON POST ROAD MARLBOROUGH, MA 01752

**OWNER** LOCATION DAVID O. WHITTEMORE TRUST 815 EDMANDS ROAD 152 WAYSIDE INN ROAD FRAMINGHAM, MA. MARLBOROUGH, MA 01752 MAP 421, BLOCK 1, LOT 66



REVISION: DATE: NO. 2 11/12/2015 PER REVIEW COMMENTS 7/22/2015 WATER CONNECTION PROPOSED SITE PLAN

VITO COLONNA

CONNORSTONE ENGINEERING CONSULTING CIVIL ENGINEERS AND LAND SURVEYORS 10 SOUTHWEST CUTOFF, SUITE 7 NORTHBOROUGH, MASSACHUSETTS 01532

PHONE: 508-393-9727 FAX: 508-393-5242

SHEET 2 OF 3

9-25-14

GEOTEXTILE FILTER -FABRIC (SIDES) 3/4" WASHED STONE 12" MIN THREE 1,000 GALLON CONCRETE GALLEYS (EF SHEA OR EQUAL) 20' X 14' STONE BED 1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS. 2. TANKS SHALL BE DESIGNED FOR H-20 LOADING. 3. REMOVE ANY TOP/SUBSOIL WITHIN 5 FEET OF THE SYSTEM, AND UNSUITABLE MATERIALS BELOW THE SYSTEM SHALL BE REMOVED. ANY REPLACEMENT FILL REQUIRED SHALL BE CLEAN FREE DRAINING FILL WITH LESS THAN 5% PASSING THE #200 SIEVE (C-33 WASHED SAND OR TITLE 5 FILL MEETS THIS REQUIREMENT) DRIVEWAY DRYWELL DETAIL

ADJUST ONE FRAME AND GRATE TO GRADE LOCATION PER PLAN. DRYWELLS SHALL REMAIN OFFLINE UNTIL ALL 2" LAYER 1/8" TO MIN. OF 9" COVER OVER SYSTEM UPGRADIENT AREAS ARE FULLY STABILIZED, 1/2" WASHÉD STONE --6" H-20 OR GEOTEXTILE FABRIC

NOT TO SCALE

